

Title (en)  
POWER SUPPLY UNIT FOR AEROSOL INHALER, AND CONTROL METHOD AND CONTROL PROGRAM OF THE SAME

Title (de)  
STROMVERSORGUNGSEINHEIT FÜR AEROSOLINHALATOR UND STEUERVERFAHREN UND STEUERPROGRAMM DAFÜR

Title (fr)  
UNITÉ D'ALIMENTATION ÉLECTRIQUE POUR INHALATEUR D'AÉROSOL ET PROCÉDÉ DE COMMANDE ET PROGRAMME DE COMMANDE ASSOCIÉS

Publication  
**EP 3646741 A1 20200506 (EN)**

Application  
**EP 19206196 A 20191030**

Priority  
JP 2018204705 A 20181031

Abstract (en)  
A power supply unit (10) for an aerosol inhaler includes: a power supply (12) that is able to discharge power to a load (21) for generating an aerosol from an aerosol source; and a control unit (50) that is configured to control the power supply. The control unit acquires a deteriorated state or a failure state of the power supply based on an internal resistance of the power supply.

IPC 8 full level  
**A24F 40/50** (2020.01); **A24F 40/53** (2020.01)

CPC (source: EA EP KR US)  
**A24F 40/53** (2020.01 - EP KR); **A24F 40/90** (2020.01 - EP); **A61M 15/009** (2013.01 - US); **G01R 31/382** (2019.01 - KR); **G01R 31/389** (2019.01 - KR); **G01R 31/392** (2019.01 - KR); **H01M 10/48** (2013.01 - EA EP KR US); **H02J 7/00** (2013.01 - EA); **H02J 7/0063** (2013.01 - US); **A61M 2205/50** (2013.01 - US); **A61M 2205/702** (2013.01 - US); **A61M 2205/8206** (2013.01 - US); **H01M 2220/30** (2013.01 - EP); **Y02E 60/10** (2013.01 - EP)

Citation (applicant)  
• JP 2017514463 A 20170608  
• ERIKA MEZA ET AL., J. CHIL. CHEM. SOC, vol. 53, no. 2, 2008, pages 1494 - 1497

Citation (search report)  
• [E] EP 3583859 A1 20191225 - JAPAN TOBACCO INC [JP]  
• [A] JP 2018055793 A 20180405 - TOYOTA MOTOR CORP  
• [A] EP 2701268 A1 20140226 - PHILIP MORRIS PROD [CH]

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WO2023057577A1; EP3674729B1

Designated contracting state (EPC)  
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)  
BA ME

DOCDB simple family (publication)  
**EP 3646741 A1 20200506**; CA 3060355 A1 20200430; CA 3060355 C 20210309; CA 3106277 A1 20200430; CN 111109687 A 20200508; EA 038292 B1 20210805; EA 201992333 A1 20200531; JP 2020068708 A 20200507; JP 6681963 B1 20200415; KR 102204123 B1 20210118; KR 102419808 B1 20220712; KR 20200049637 A 20200508; KR 20210006494 A 20210118; TW 202025926 A 20200716; TW I717079 B 20210121; US 11611227 B2 20230321; US 2020128883 A1 20200430

DOCDB simple family (application)  
**EP 19206196 A 20191030**; CA 3060355 A 20191028; CA 3106277 A 20191028; CN 201911056168 A 20191031; EA 201992333 A 20191030; JP 2018204705 A 20181031; KR 20190135329 A 20191029; KR 20210003068 A 20210111; TW 108139262 A 20191030; US 201916668890 A 20191030